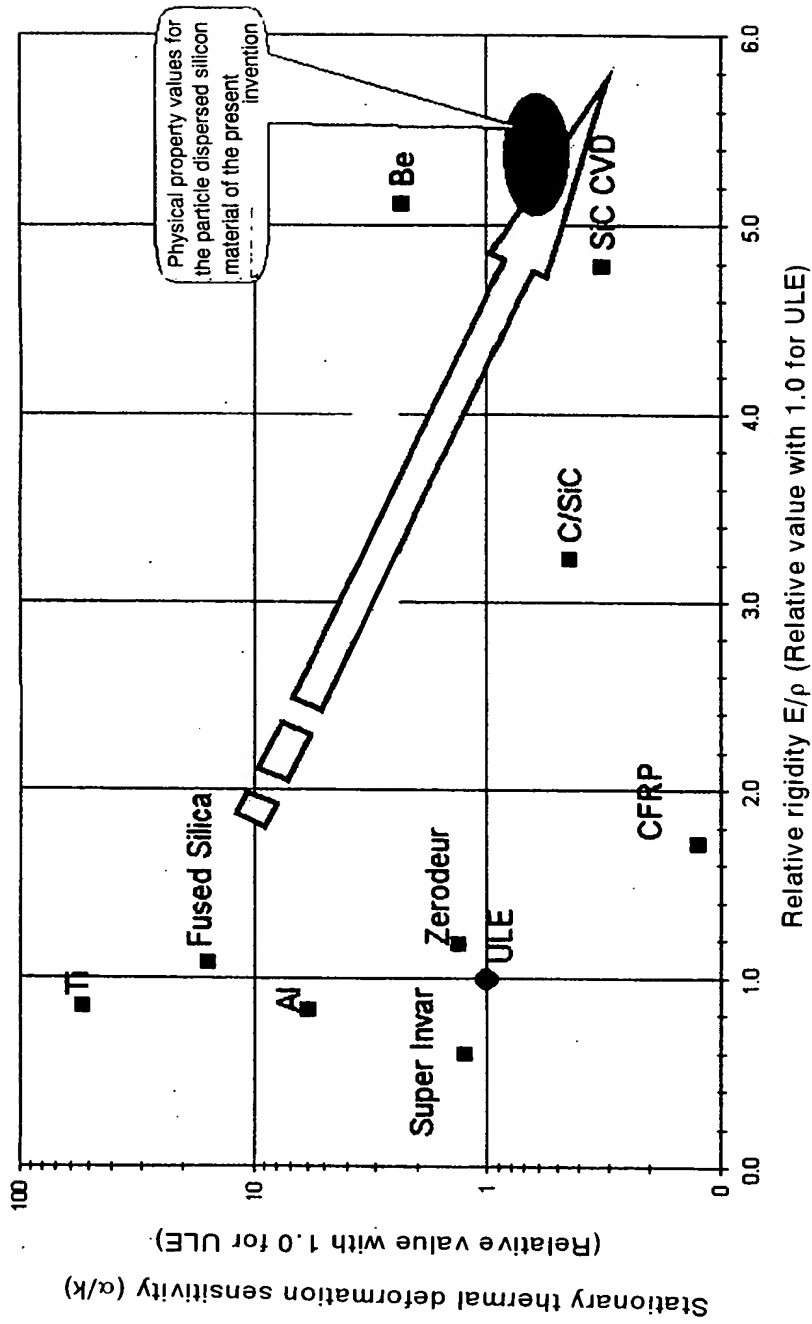


Figure 1



Ti: Titanium, Al: Aluminum, Fused Silica, Super invar: Super invar alloy, ULE: Low thermal expansion glass (Corning Corp.), Zerodur: Low thermal expansion glass (Schott Corp.), CFRP: Carbon fiber reinforced plastic, C/SiC: Carbon fiber reinforced silicon carbide ceramic, SiC CVD: Silicon carbide ceramic obtained by chemical vapor deposition, Be: Beryllium

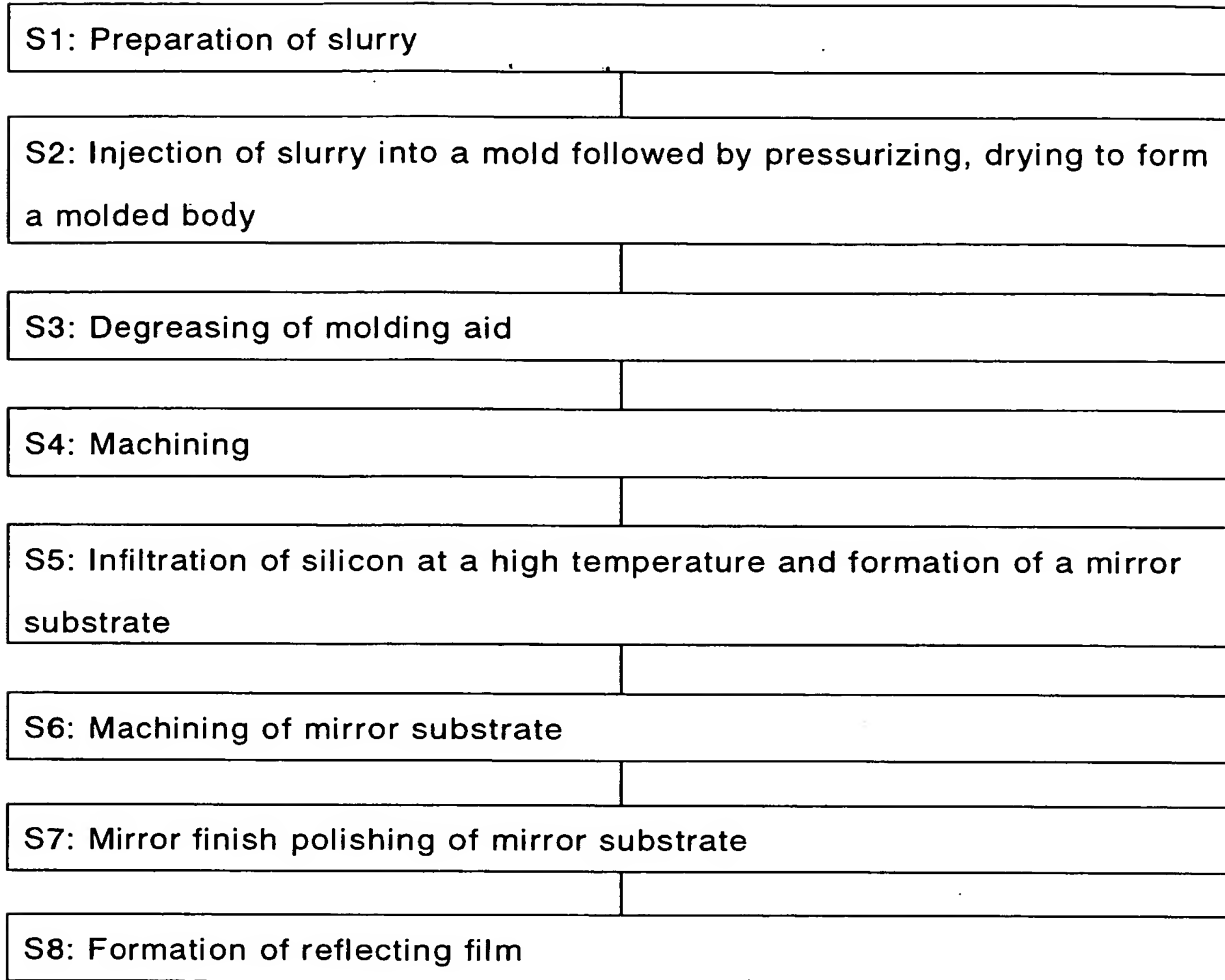


Figure 2

Figure 3

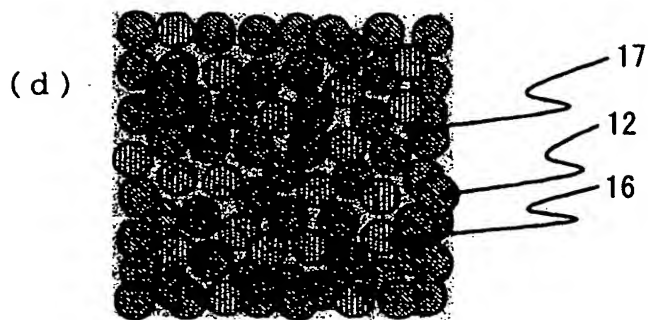
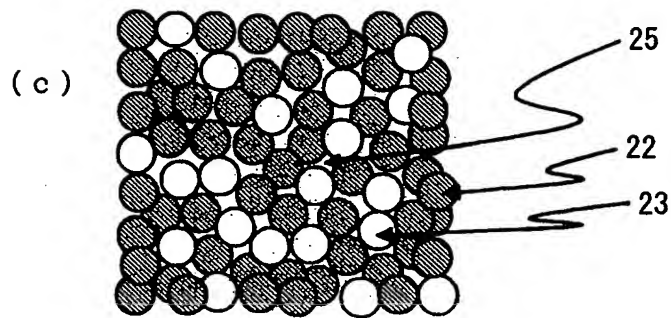
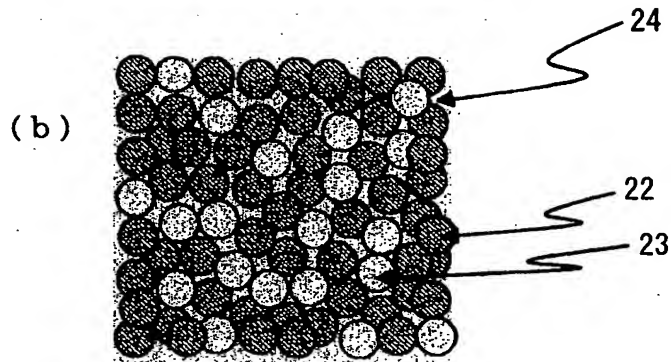
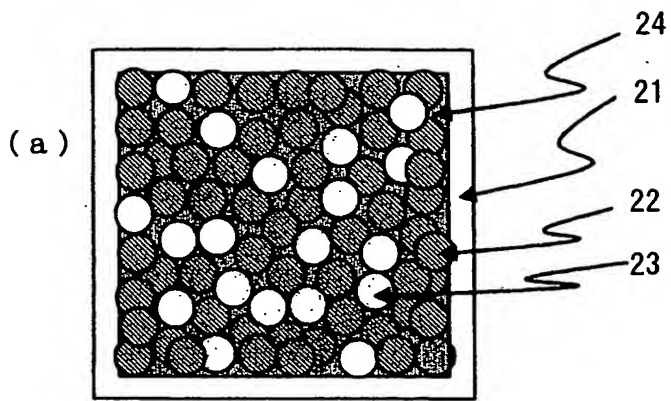


Figure 4

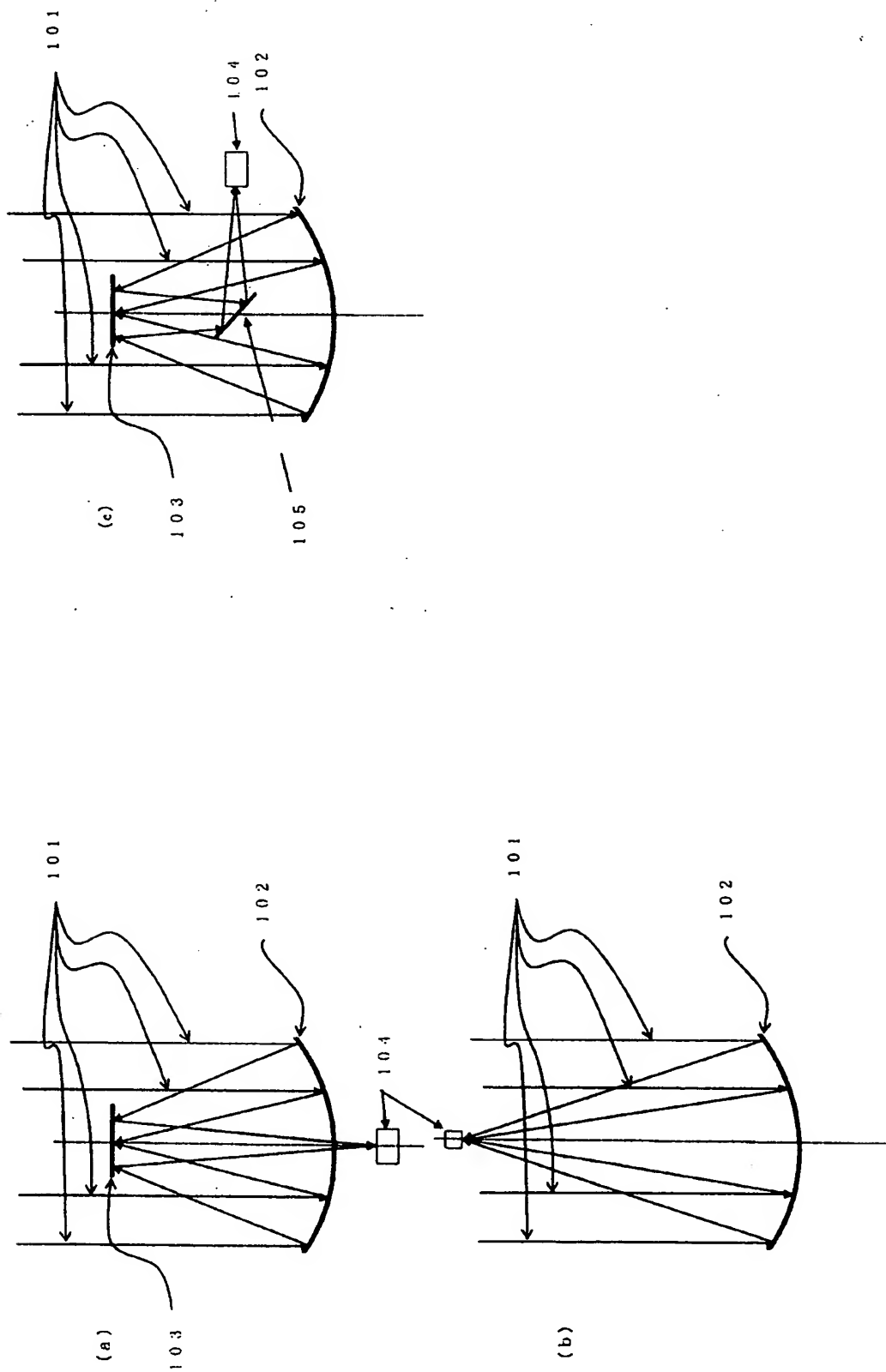


Figure 5

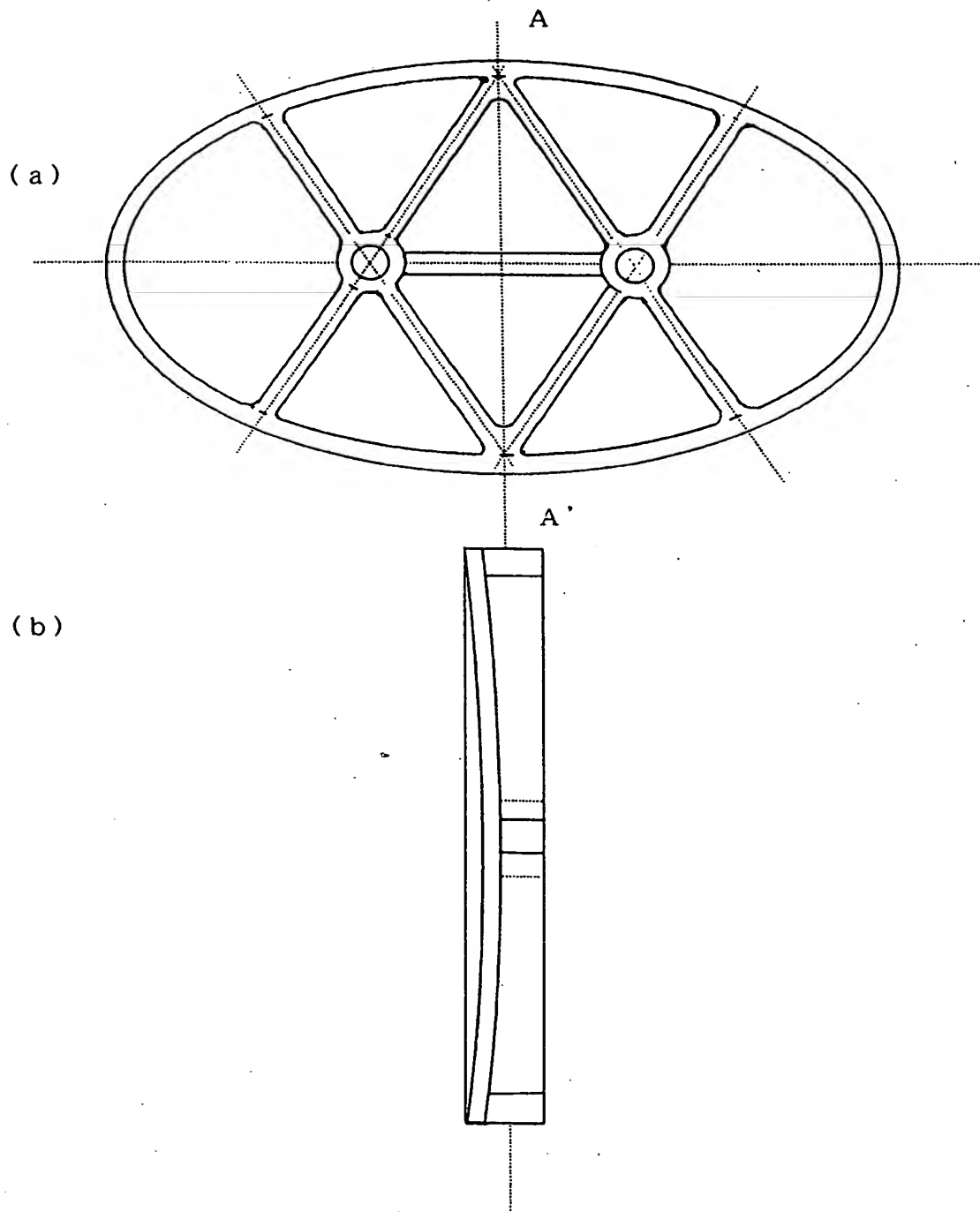
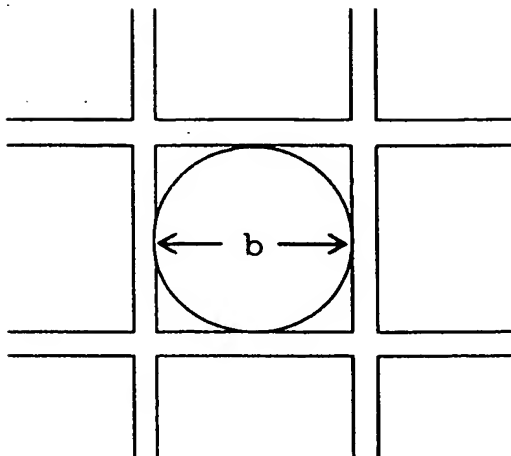


Figure 6

(a)



(b)

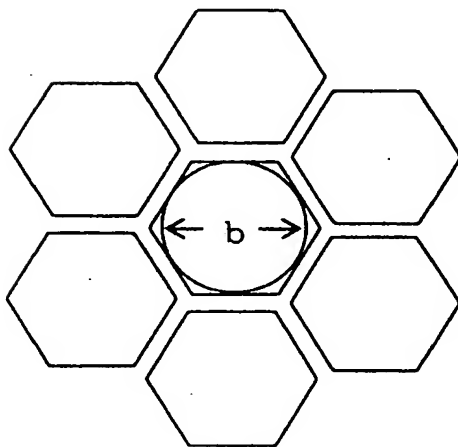
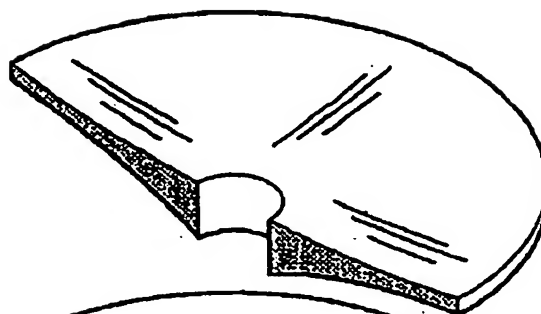


Figure 7

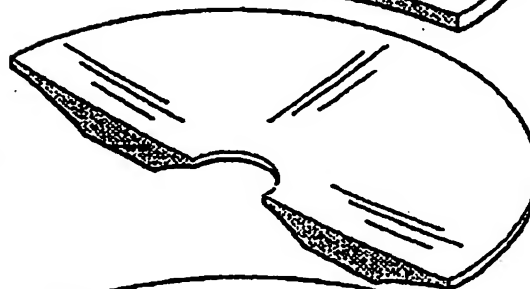
(a)

• SINGLE ARCH



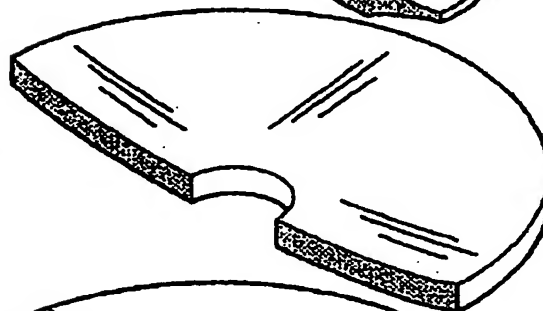
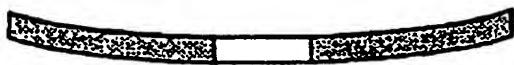
(b)

• DOUBLE ARCH



(c)

• MENISCUS



(d)

• OPEN BACK

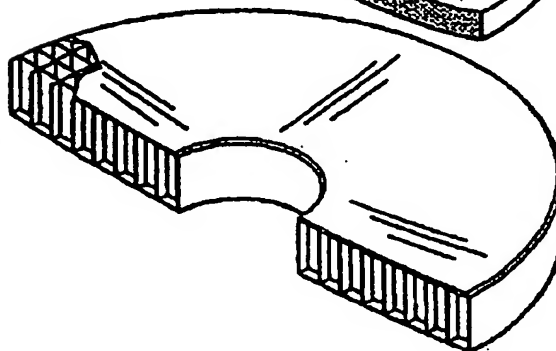
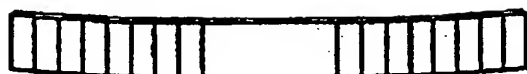
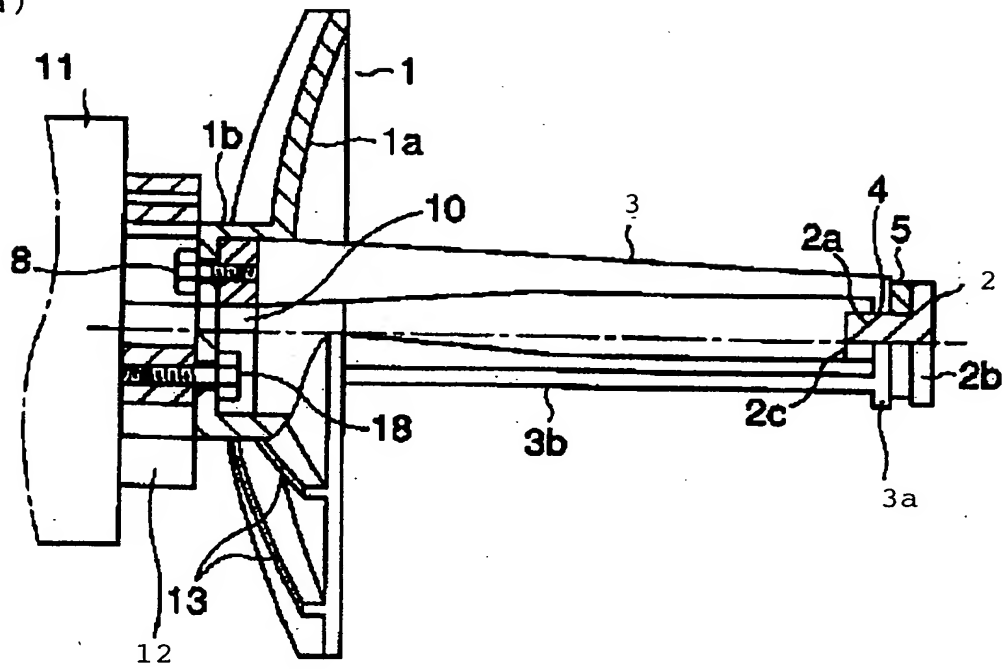


Figure 8

(a)



(b)

